

# PATENT ABSTRACTS OF JAPAN

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**(54) RF PROBE**

**(57)Abstract:**

**PURPOSE:** To improve the stability of an RF probe for an MRI device.

**CONSTITUTION:** This RF probe is provided with a high-frequency closed loop 1 containing at least one or two or more conductor elements 11 and capacitive elements 12, a high-frequency closed loop 2 containing a capacitive element 22 and a conductor element 21 and acting as a parallel resonance circuit at the magnetic resonance frequency, a high-frequency closed loop 3 magnetically coupled with the parallel resonance circuit, and a port 4 detecting the output of the closed loop 3. The NMR signal is detected by the closed loop 1. The closed loop 2 acts as the trap circuit of the closed loop 1 when it is resonated at the magnetic resonance frequency, and it is inductively decoupled.

